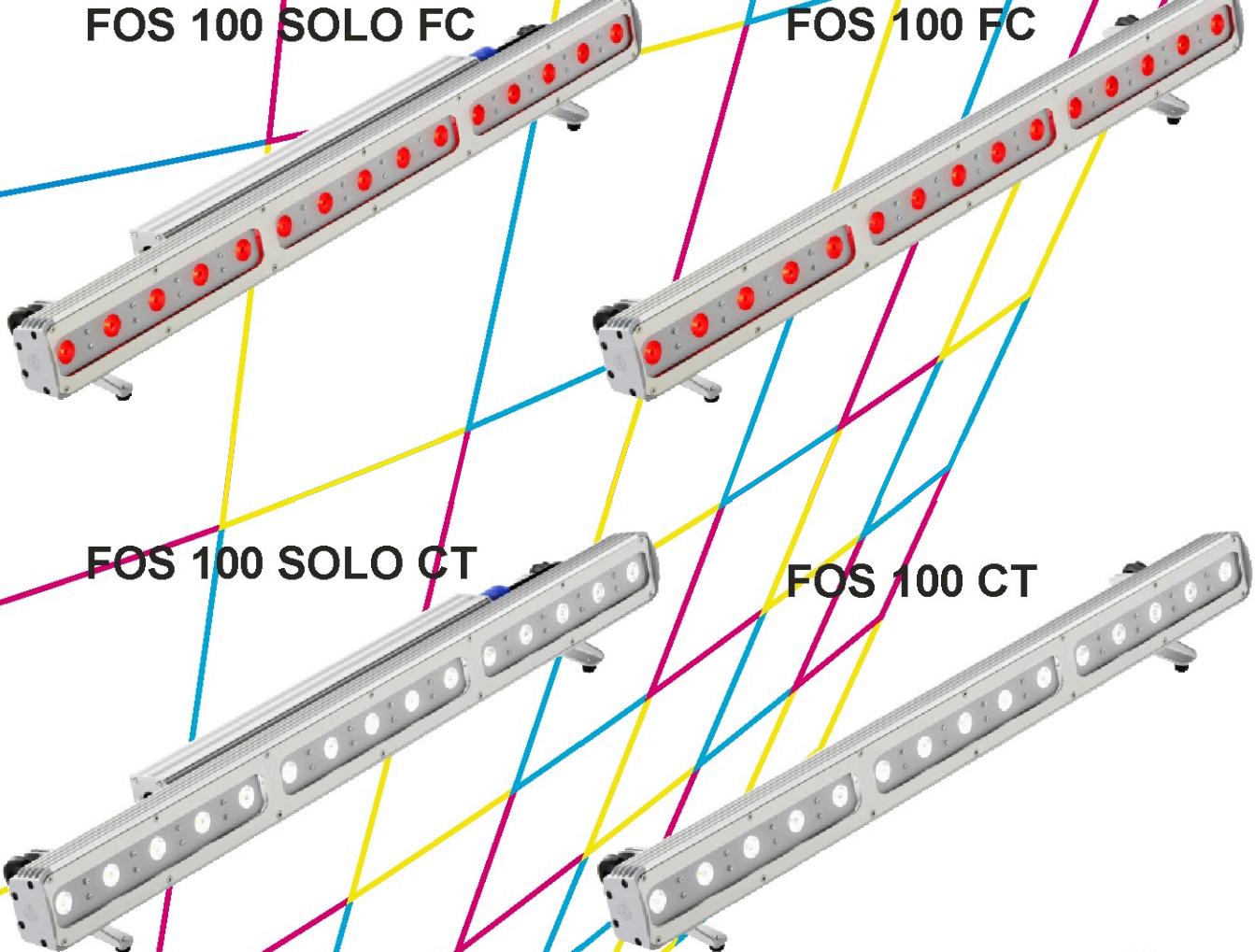


FOS 100 FC FOS 100 CT



User's Manual rel 4.2 GB

D.T.S. Illuminazione s.r.l. - ITALY
<http://www.dts-lighting.it>



The Lighting Company

Made in Italy

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FOS 100 FC - FOS 100 CT

D.T.S. Product codes:

03.LBB010E11FC10	FOS 100 IP 65 FC Narrow lenses Black finish
03.LBB010E11FC25	FOS 100 IP 65 FC Medium flood lenses Black finish
03.LBB010E11FC40	FOS 100 IP 65 FC Wide flood lenses Black finish
03.LBB010E11FB10	FOS 100 IP 65 CT Narrow lenses Black finish
03.LBB010E11FB25	FOS 100 IP 65 CT Medium flood lenses Black finish
03.LBB010E11FB40	FOS 100 IP 65 CT Wide flood lenses Black finish

LED technology

FOS 100 FC: 15 x FULL RGBW LEDs; 4608 Lumens
 16 million colours; colour temperature range 2700K ÷ 8000K
 FOS 100 CT: 15 x FULL WHITE LEDs; 6720 Lumens
 16 million colours; colour temperature range 2700K ÷ 6500K
 LEDs average lifespan: 75.000 hours (70% lumen output)

Optical units

3 lenses sets available: Spot, Medium flood and Wide flood

Control

Via any DMX lighting console (External Power supply / LED Controller is needed)

Protection

IP 65 protection level

Construction

Extruded aluminium

Power supply

Electronic full-range 90-260Vac 50-60 Hz
 Z1 PLUS IP 20 LED Controller (D.T.S. Code 03.LA.009P)
 Z1 PLUS IP 65 LED Controller (D.T.S. Code 03.LA.009P.IP65)
 Z8 LED Controller M12 outputs (D.T.S. Code 03.LA.075.V2)
 Z8 LED Controller Screw terminals outputs (D.T.S. Code 03.LA.080.V2)
 DRIVENET 832 LED Controller Screw terminals outputs (D.T.S. Code 03.LA.177)

Power consumption

100W Max

Connection

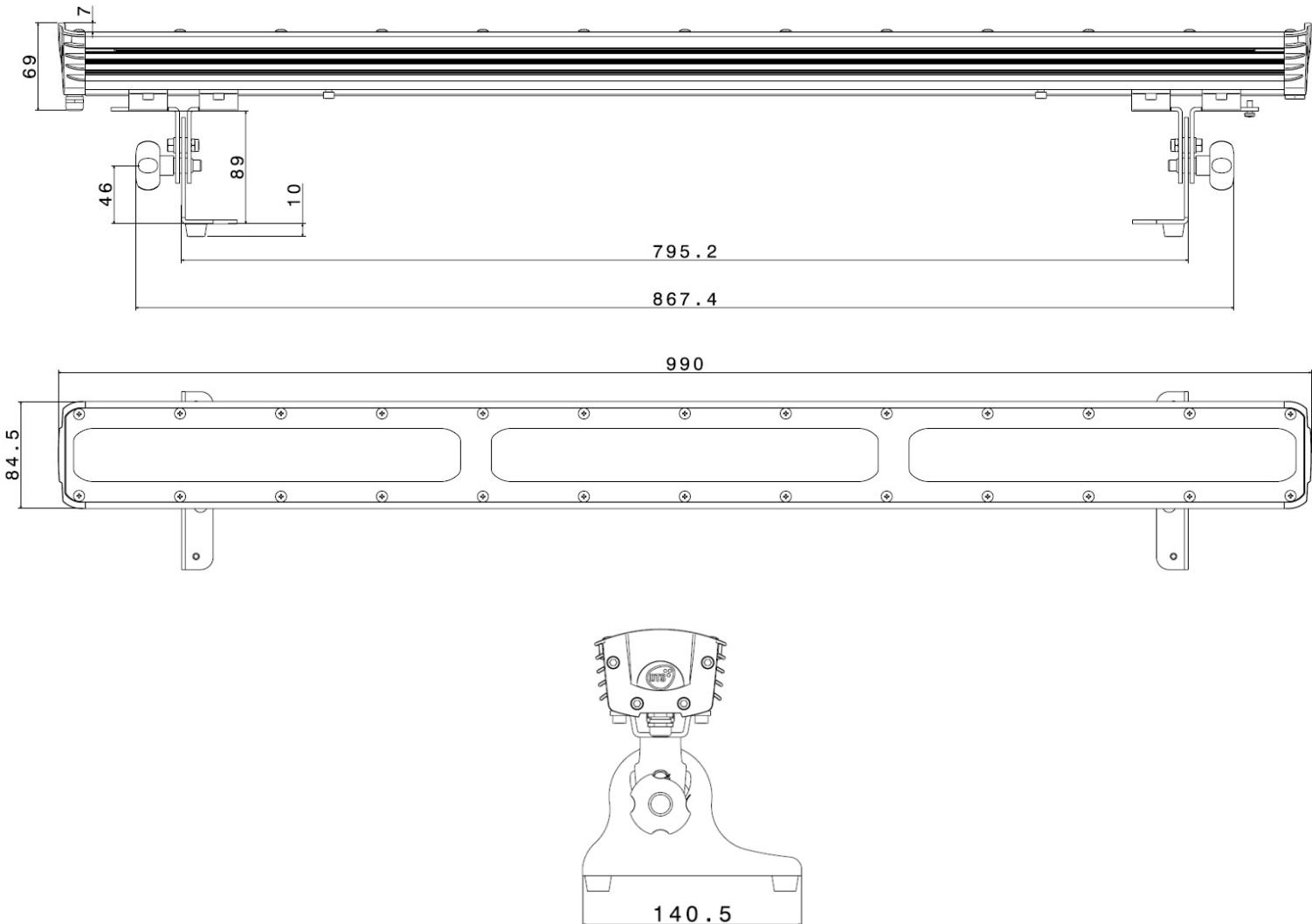
Cable with M12 male connector

Weight

5,5 Kg

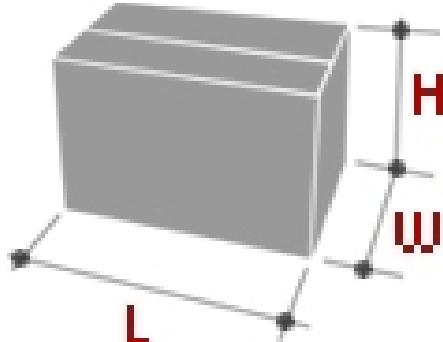
FOS 100 FC - FOS 100 CT

UNIT DIMENSIONS



Packing Dimensions
(LxWxH)
1060 x 160 x 200 mm

Weight
7 Kg



FOS 100 SOLO FC - FOS 100 SOLO CT

D.T.S. Product codes:

03.LBB014S11FC10	FOS 100 SOLO IP 20 FC Narrow lenses Black finish
03.LBB014S11FC25	FOS 100 SOLO IP 20 FC Medium flood lenses Black finish
03.LBB014S11FC40	FOS 100 SOLO IP 20 FC Wide flood lenses Black finish
03.LBB010S11FC10	FOS 100 SOLO IP 65 FC Narrow lenses Black finish
03.LBB010S11FC25	FOS 100 SOLO IP 65 FC Medium flood lenses Black finish
03.LBB010S11FC40	FOS 100 SOLO IP 65 FC Wide flood lenses Black finish
03.LBB014S11FB10	FOS 100 SOLO IP 20 CT Narrow lenses Black finish
03.LBB014S11FB25	FOS 100 SOLO IP 20 CT Medium flood lenses Black finish
03.LBB014S11FB40	FOS 100 SOLO IP 20 CT Wide flood lenses Black finish
03.LBB010S11FB10	FOS 100 SOLO IP 65 CT Narrow lenses Black finish
03.LBB010S11FB25	FOS 100 SOLO IP 65 CT Medium flood lenses Black finish
03.LBB010S11FB40	FOS 100 SOLO IP 65 CT Wide flood lenses Black finish

LED technology

FOS 100 SOLO FC: 15 x FULL RGBW LEDs; 4608 Lumens

16 million colours; colour temperature range 2700K ÷ 8000K

FOS 100 SOLO CT: 15 x FULL WHITE LEDs; 6720 Lumens

16 million colours; colour temperature range 2700K ÷ 6500K

LEDs average lifespan: 75.000 hours (70% lumen output)

Optical units

3 lenses sets available: Spot, Medium flood and Wide flood

Control

Via any DMX lighting console

Protection

IP 20 or IP 65 protection level

Construction

Extruded aluminium

Power supply

Integrated Z10 IP 20 or IP 65 Power supply / LED Controller

Electronic full-range 90-260Vac 50-60 Hz

Power consumption

100W Max

Connection

FOS 100 SOLO IP 20: POWERCON In/Out + XLR 5 poles In/Out

FOS 100 SOLO IP 65: Power input cable with cable gland; HARTING power re-send panel connector;

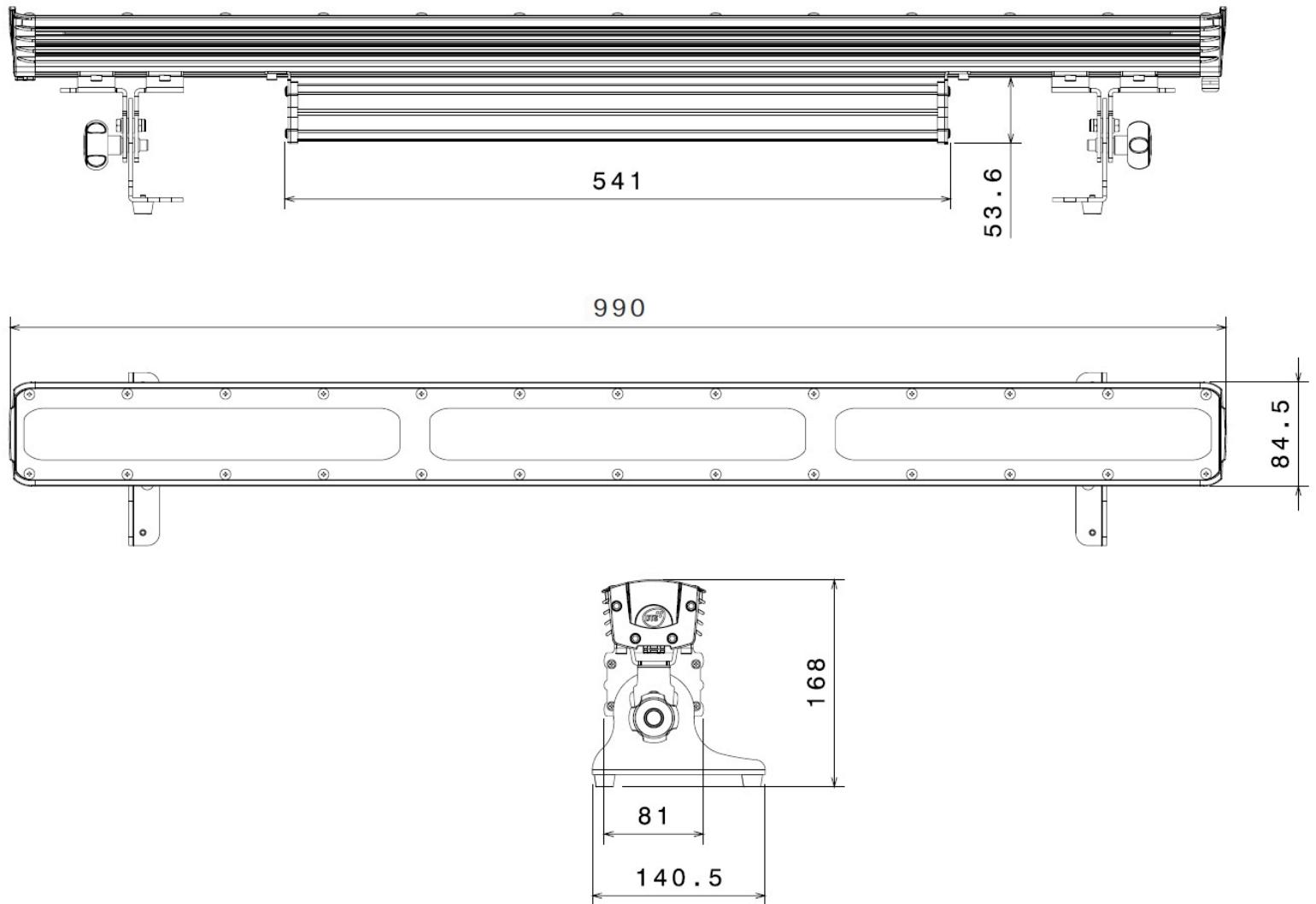
HARTING DMX 4 poles In/Out

Weight

7 Kg

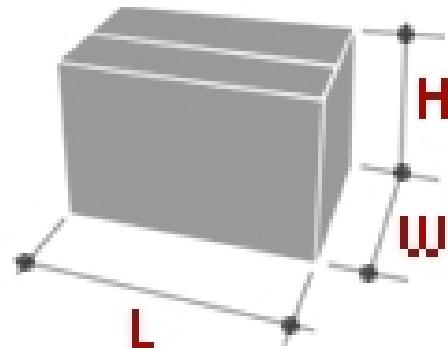
FOS 100 SOLO IP 20 FC - FOS 100 SOLO IP 20 CT

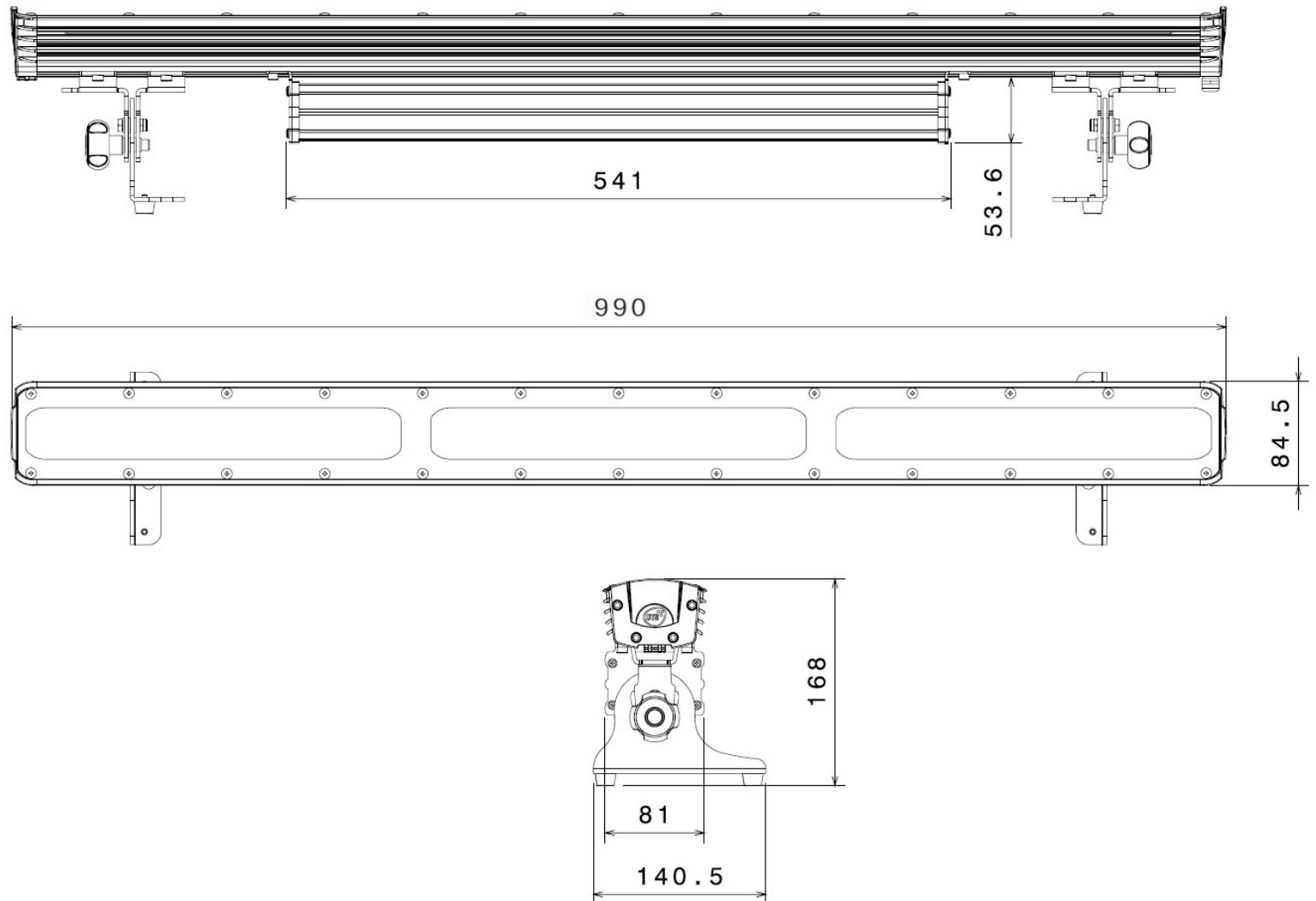
UNIT DIMENSIONS



Packing Dimensions
(LxWxH)
1060 x 160 x 200 mm

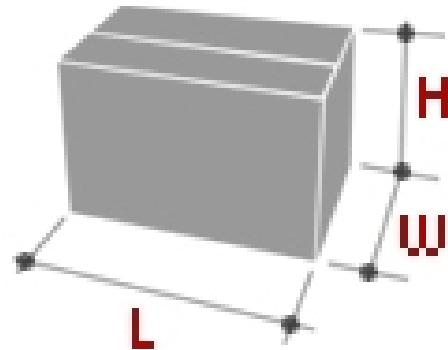
Weight
8,5 Kg



FOS 100 SOLO IP 65 FC - FOS 100 SOLO IP 65 CT**UNIT DIMENSIONS**

Packing Dimensions
(LxWxH)
1060 x 160 x 200 mm

Weight
8,5 Kg



IMPORTANT SAFETY INFORMATION

Fire prevention:

It is permissible to place the unit on normally flammable surfaces.

Suitable for mounting on normally flammable materials surfaces greater than 200°C with some combustion time lag.

Prevention from electric shock:

High voltage is present inside the unit.

Unplug the unit prior to performing any operation which involves touching the inside of the unit.

Do not open the unit. The level of technology inherent in the unit requires the assistance of specialised personnel for all servicing. Please refer to an authorised D.T.S. service centre.

This equipment must be grounded, do not connect to non-grounded supplies.

The use of a thermal magnetic circuit breaker is recommended for each unit.

Use only AC supplies 90-260V, 50-60Hz.

The unit should never be located in position exposed to rain or in areas of extreme humidity.

A good air ventilation is essential for proper equipment work.

Safety:

The unit is not for residential use and must be installed by a qualified electrician or experienced person.

In case lenses sets replacement is needed, frontal gasket must be replaced so as to maintain IP 65 rate protection. LEDs are not replaceable.

The external surface of the unit may exceed 50°C; never handle the unit until at least 5 minutes have elapsed since the unit was turned off.

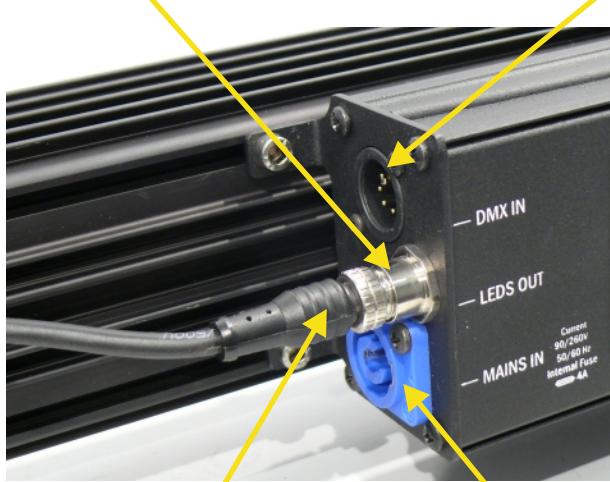
Never install the unit in an enclosed area lacking sufficient air flow.

The ambient temperature should not exceed 40°C and should not be lower than -10°C.

INPUT/OUTPUT CONNECTIONS

FOS 100 SOLO IP 20 FC
FOS 100 SOLO IP 20 CT

LED OUTPUT
M12 Female panel connector



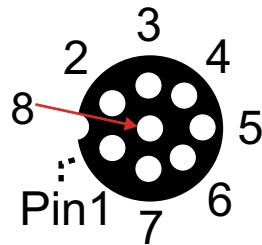
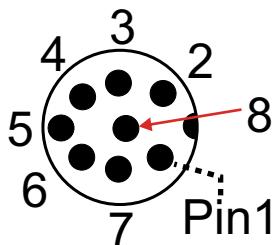
DMX IN / OUT
XLR 5 poles Male / Female panel connectors



MAINS INPUT
90-260Vac 50-60 Hz
POWERCON panel connector

LED INPUT
M12 Male cable connector

LED OUTPUT
M12 Female panel connector



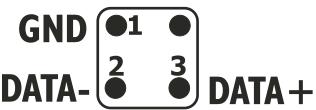
MAINS OUTPUT
90-260 Vac 50-60 Hz
POWERCON panel connector
MAX Load:
230 Vac = 20 FOS 100 SOLO
110 Vac = 10 FOS 100 SOLO

LEDs Connector PinOut

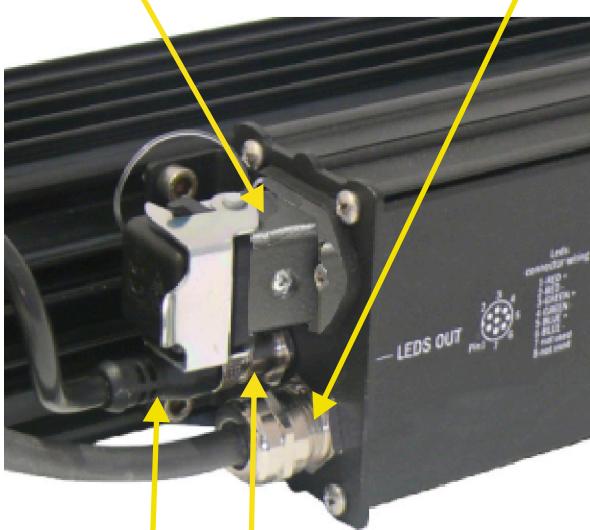
- 1-RED + / WHITE 1 +
- 2-RED - / WHITE 1 -
- 3-GREEN + / WHITE 2 +
- 4-GREEN - / WHITE 2 -
- 5-BLUE + / WHITE 3 +
- 6-BLUE - / WHITE 3 -
- 7-WHITE - / WHITE 4 -
- 8-WHITE + / WHITE 4 +

INPUT/OUTPUT CONNECTIONS

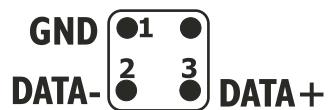
FOS 100 SOLO IP 65 FC
FOS 100 SOLO IP 65 CT



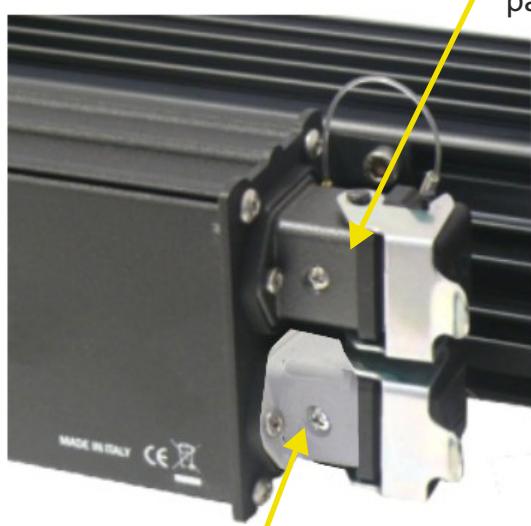
DMX IN
ILME 4 poles female panel connector



MAINS INPUT
90-260 Vac 50-60 Hz
Power cable with cable gland

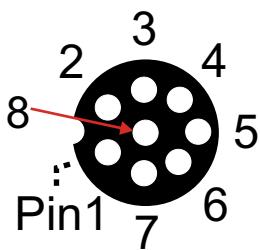
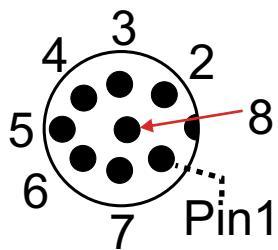


DMX OUT
ILME 4 poles female panel connector

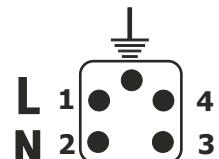


LED INPUT
M12 Male cable connector

LED OUTPUT
M12 Female panel connector



MAINS OUTPUT
90-260Vac 50-60 Hz
ILME 5 poles panel connector
MAX Load:
230 Vac = 20 FOS 100 SOLO
110 Vac = 10 FOS 100 SOLO

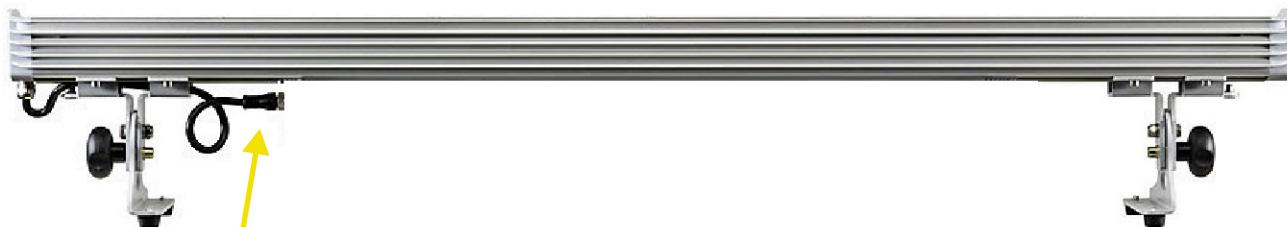


LEDs Connector PinOut

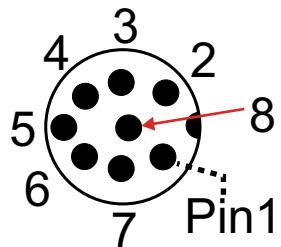
- 1-RED + / WHITE 1 +
- 2-RED - / WHITE 1 -
- 3-GREEN + / WHITE 2 +
- 4-GREEN - / WHITE 2 -
- 5-BLUE + / WHITE 3 +
- 6-BLUE - / WHITE 3 -
- 7-WHITE - / WHITE 4 -
- 8-WHITE + / WHITE 4 +

INPUT/OUTPUT CONNECTIONS

FOS 100 FC
FOS 100 CT



LED INPUT
M12 Male cable connector



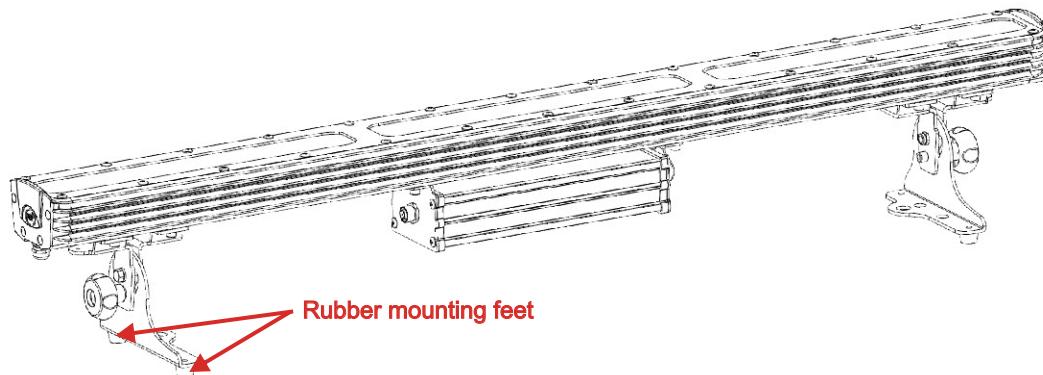
LEDs Connector PinOut

- 1-RED + / WHITE 1 +
- 2-RED - / WHITE 1 -
- 3-GREEN + / WHITE 2 +
- 4-GREEN - / WHITE 2 -
- 5-BLUE + / WHITE 3 +
- 6-BLUE - / WHITE 3 -
- 7-WHITE - / WHITE 4 -
- 8-WHITE + / WHITE 4 +

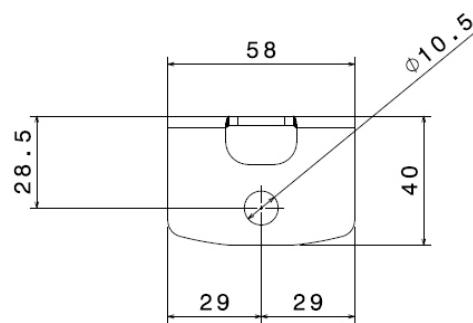
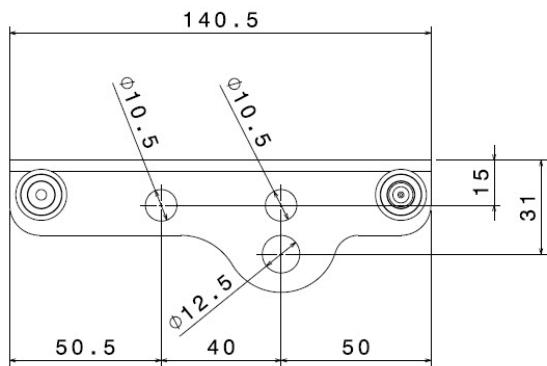
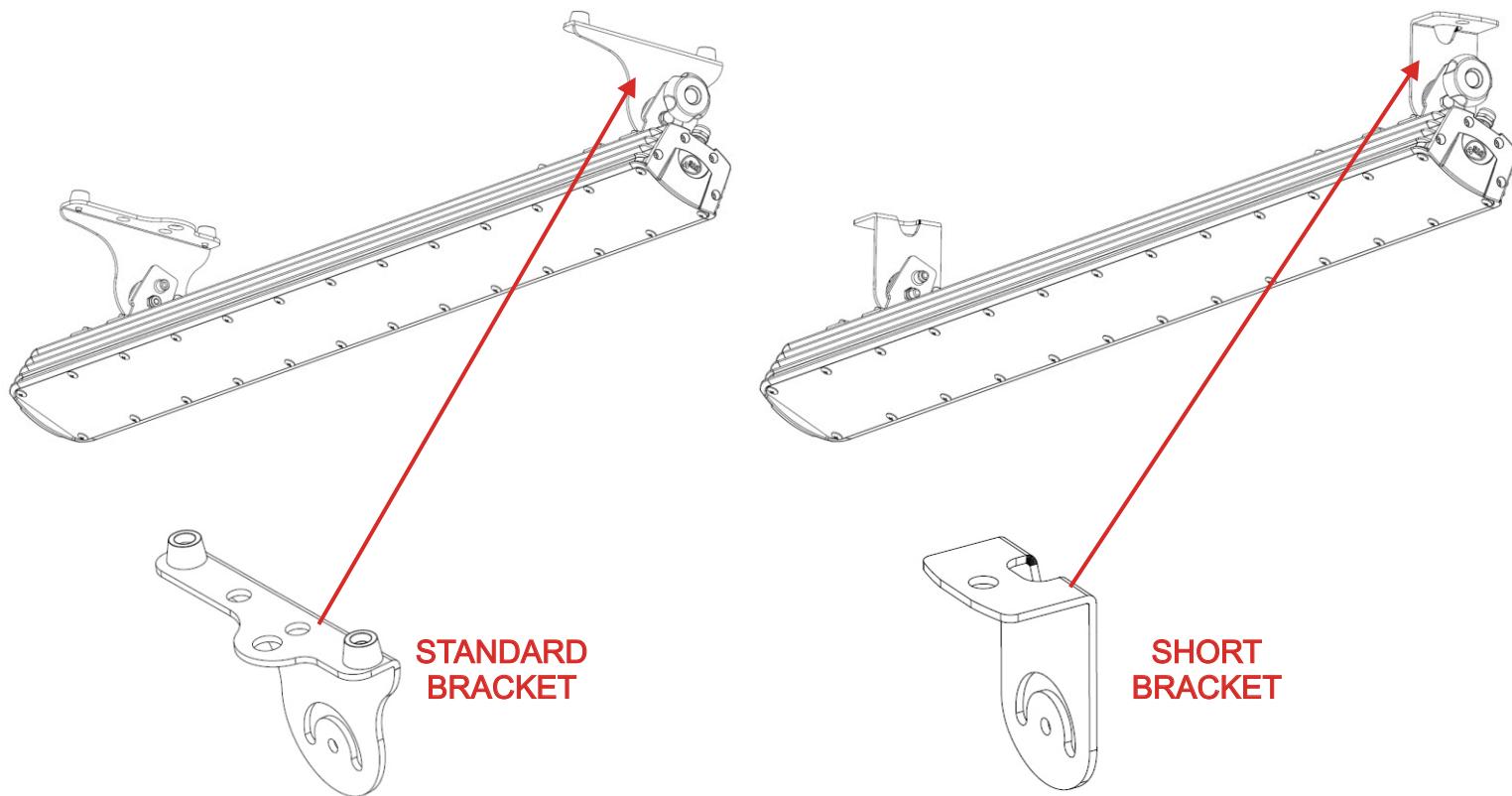
INSTALLATION

The unit is suitable for use in wet locations.
The unit may be either floor or ceiling mounted.

FLOOR MOUNTING INSTALLATION:



CEILING MOUNTING INSTALLATION:



DMX SIGNAL CONNECTION:

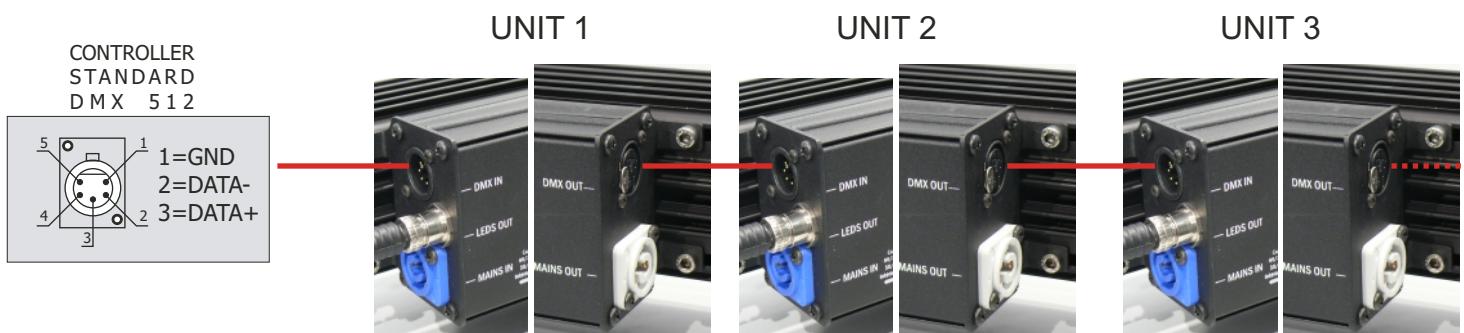
FOS 100 SOLO IP 20 FC

FOS 100 SOLO IP 20 CT

The unit operates using a digital DMX 512 signal. Connection between the controller and the unit or between units must be carried out using a two pair screened Ø 0.5 mm.

Ensure that the conductors do not touch each other. Do not connect the cable ground to the DMX connector chassis. The plug housing must be isolated. Connect the mixer signal to the DMX IN projector plug and connect it to the next projector by connecting the DMX OUT plug on the first unit to the DMX IN plug of the second one.

In this way, all the projectors are cascade connected.



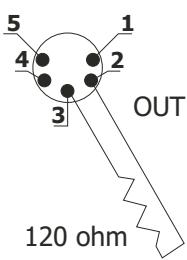
P.S:

If the display showing the DMX address flashes, then one of the following errors has occurred:

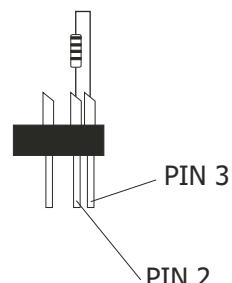
- DMX signal not present
- DMX reception problem

For installations where long distance DMX cable connections are needed, we suggest to use a DMX terminator.

The DMX terminator is a male XLR 3-5 pins connector with a 120 ohm resistor between pin 2 and 3. The DMX terminator must be plugged into the last unit (DMX out panel connector) of the DMX line.



PLACE A 120 OHM RESISTOR BETWEEN PIN 2 AND 3 OF A MALE XRL CONNECTOR AND PLUG IT INTO THE DMX OUT PANEL CONNECTOR OF THE LAST UNIT CONNECTED TO THE DMX LINE



The standard configuration of the FOS 100 SOLO is with XLR 5 pins connectors.

DMX SIGNAL CONNECTION:

FOS 100 SOLO IP 65 FC
FOS 100 SOLO IP 65 CT

The unit operates using a digital DMX 512 signal. Connection between the controller and the unit or between units must be carried out using a two pair screened Ø 0.5 mm.

Ensure that the conductors do not touch each other. Do not connect the cable ground to the DMX connector chassis. The plug housing must be isolated. Connect the mixer signal to the DMX IN projector plug and connect it to the next projector by connecting the DMX OUT plug on the first unit to the DMX IN plug of the second one.

In this way, all the projectors are cascade connected.



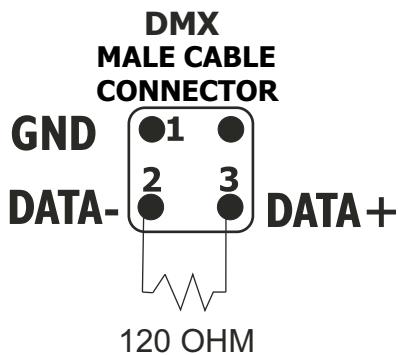
P.S:

If the display showing the DMX address flashes, then one of the following errors has occurred:

- DMX signal not present
- DMX reception problem

For installations where long distance DMX cable connections are needed, we suggest to use a DMX terminator.

The DMX terminator is a male DMX cable connector with a 120 ohm resistor between pin 2 and 3. The DMX terminator must be plugged into the DMX out panel connector of the last unit connected to the DMX line.



PLACE A 120 OHM RESISTOR BETWEEN PIN 2
AND 3 OF A MALE DMX CONNECTOR AND PLUG IT
INTO THE DMX OUT PANEL CONNECTOR OF THE
LAST UNIT CONNECTED TO THE DMX LINE

DMX ADDRESS

FOS 100 SOLO FC and FOS 100 SOLO CT can be used in seven different modes: 10 DMX channels mode (default), 6 DMX channels mode (Shutter + Dimmer + RGBW), WALL mode (6 DMX channels; for use with DTS Wall mounted DMX controller 0514L007), M4CH mode (5 DMX channels; Dimmer + RGBW), RGBW mode (4 channels), 1 DMX channel mode or CUSTOM DMX mode (not yet implemented).

If you want to use the FOS 100 SOLO FC or CT in "WALL" mode, select the "WALL" mode from the MODE menu and set the following addresses on the mixer: **(To be used only with DTS Wall mounted DMX controller 0514L007)**

Projector 1	A001
Projector 2	A006
Projector 3	A012
.....	A....
projector 6	A030

If you want to select the next projector, just add "6"
DTS Wall mounted DMX controller 0514L007 assign 6 DMX channels per unit also if some channels are not used

If you want to use the FOS 100 SOLO FC or CT in 10 channels mode, select the 10 CH mode from the MODE menu and set the following addresses on the mixer:

Projector 1	A001
Projector 2	A011
Projector 3	A021
.....	A....
projector 6	A051

If you want to select the next projector, just add "10"

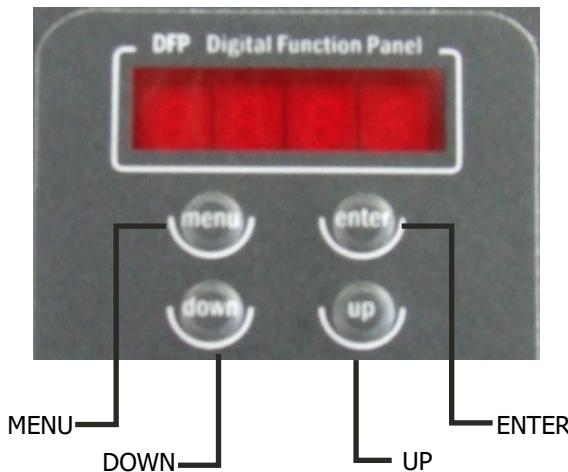
Selecting the DMX address

- 1) Press the UP-DOWN key until you reach the required DMX address. The numbers on the display will start to flash (but the new DMX address hasn't yet been set).
- 2) Press ENTER to confirm your selection. The numbers on the display will stop flashing and the projector is now controlled by the new DMX address.

TIPS: if you keep pushed the UP or DOWN keys, the channels are calculated more quickly and you get a faster selection.

DISPLAY FUNCTIONS

**FOS 100 SOLO FC
FOS 100 SOLO CT**



DISPLAY FUNCTIONS

The FOS 100 SOLO display panel shows all the available functions . Using these functions, it is possible to change some of the parameters and add some functions. Changing the D.T.S. setting can vary the functions of the unit so that it does not respond to the DMX 512 signal used to control it. Carefully follow the instructions below before carrying out any variations or selections.
 NOTE: the symbol shows which key has to be pushed to obtain the desired function.

Software version 5.16

R001	MENU Up-Down	dISP	ENTER Up-Down	P051	ENTER Up-Down	RR	Floor position	ENTER
REVERSE DISPLAY						88	Suspension position	ENTER
Reverses display's reading depending on the mounting position (On the ground or suspended).						off	Display OFF	ENTER
DISPLAY STAND BY	Up-Down		Up-Down	Stby	ENTER Up-Down	on	Display always ON	ENTER
Node	ENTER	10CH	10 CHANNELS	ENTER	Default DMX Mode = 10 CH			
DMX MODE		6CH	6 CHANNELS	ENTER				
To select DMX mode : 10 DMX channels mode (default), 6 DMX channels mode (Shutter + Dimmer + RGBW), 15 DMX channels mode, WALL mode (6 DMX channels; for use with DTS Wall mounted DMX controller 0514L007), M4CH mode (5 DMX channels; Dimmer + RGBW), RGBW mode (4 channels), 1 DMX channel mode.		15CH	15 CHANNELS	ENTER				
AUX mode let you activate an external ON-OFF control on IR connector. (not implemented on FOS 100 SOLO)		WALL	WALL (6 CHANNELS)	ENTER				
CUSTOM DMX mode let you set the parameters for Shutter, Dimmer, Red, Green, Blue, White, White pre-programmed, CTC, Macro and Function to the desired DMX channels.		M4CH	M4CH (5 CHANNELS)	ENTER	Shutter + Dimmer + RGBW			
		RGB	RGB (4 CHANNELS)	ENTER	Dimmer + RGBW			
		1CH	1 CHANNEL					
		CUST		ENTER Up-Down	SEL	Custom mode enabled		
					Show	Show Custom settings		
					SET	Parameters Setting on Custom Mode		

MENU Up-Down

Node

ENTER Up-Down

AUX

AUX MODE

ENTER

External ON - OFF control on IR connector (not implemented on FOS 100 SOLO)

MACRO

MACRO Function, enable channel mapping macro rainbow effects
STD (default)

Up-Down

MACr

ENTER Up-Down

Std

ENTER

Standard mode enabled:
(Default).
Extended mode enabled:
Rainbow effects on MACRO channel.

MENU Up-Down

LED

ENTER Up-Down

rEd

ENTER Up-Down

Blu

ENTER

Default = 0

LED

RGBW Min/Max, Smooth, Compression,
Sync and Boost level values settings

Up-Down

GrEE

ENTER Up-Down

Blu

ENTER

Default = 0

Up-Down

blue

ENTER Up-Down

Blu

ENTER

Default = 0

RGBA MINIMUM VALUES

This menu allow to select the minimum levels for Red, Green, Blue and White

RGBA MAXIMUM VALUES

This menu allow to select the maximum levels for Red, Green, Blue and White

These settings have priority
on Master Dimmer channel

SMOOTH VALUE

This menu allow to select the value of the delay (in milliseconds) for RGBW and Dimmer channels reaction to DMX or Program variation.

Off=25 ms delay (Fast response)
20=250 ms delay (Slow response)

Up-Down

Anbr

ENTER Up-Down

Blu

ENTER

Default = 0

COMPRESSION

This menu allow to select between Linear current output or Quadratic current output for LEDs
Default = Linear

Up-Down

SAT

ENTER Up-Down

4

ENTER

Range = Off-20
Default = 4

Off = 25 ms

Istant responce to DMX variation

SYNC

This menu allow to adjust the PWM frequency value (Hz) in order to reduce flickering in the process of your camera recordings

Up-Down

COMP

ENTER Up-Down

4

ENTER

Range = Off-20
Default = 4

Off = 25 ms

Smooth response to DMX variation

BOOST DRIVING

This menu allow to increase the LED's current from 350 mA to 500 mA

Up-Down

Sync

ENTER Up-Down

610

ENTER

Range = 610 Hz -10 KHz
Default = 610 Hz

b5t

ENTER Up-Down

On

ENTER

Boost mode activated

Up-Down

OFF

ENTER

Boost mode deactivated

With BOOST active, the LED's current is set to 500 mA (30% more gain).
Default = Disabled

MENU Up-Down

AUT0

ENTER

SUR-E

ENTER Up-Down

ChPr

ENTER

SPEE

Up-Down

00 10

ENTER

AUTOMATIC MODE

Automatic demo game without DMX controller

ChPr

Chase with 16 steps previously created in REC MODE

Speed and Wait time selectable by user

CUPr

RGB values selectable by user

Rainbow (rAIn)

Rainbow colours effect.

Speed time selectable by user

CU01-CU16

Color Macros as on DMX channel 8 (Macro)

WHITE MACROS

16 macros for White color from 2700K to 8000K (FOS 100 FC) or 2700K to 6500K (FOS 100 CT)

DIMMER

Dimmer level selectable by user as on DMX channel 2 (Dimmer)

Dimmer level is active for all the programs and macros

SHUTTER

Shutter level selectable by user as on DMX channel 1 (Shutter)

Shutter level is active only for CU01/CU16 and Wh01/Wh16 macros

ESC

Esc from Automatic Mode Menu

CUPr

ENTER

rEd

Up-Down

120

ENTER

GrEE

255

blue

104

Anbr

255

rAI n

ENTER

SPEE

Up-Down

00 10

ENTER

CU01

ENTER

Up-Down

ENTER

CU02

CU 16

UH01

ENTER

Up-Down

ENTER

UH02

UH03

UH04

UH05

UH.....

UH 16

di nn

ENTER

Up-Down

ENTER

255

ENTER

SHUE

ENTER

Up-Down

ENTER

255

ENTER

ESC

MENU Up-Down

REC

ENTER

TOCH

ENTER

REC MODE

In DMX Recorder Mode, it is possible to create and store the scenes of the ChPr by using an external DMX controller.

The unit must be set to 10 channels MODE

r001

n001

n002

n0.....

n0 16

DMX Recorder Mode

For the programming of ChPr by using a DMX controller, besides the 10 channels necessary to control the unit a further 3 DMX channels are needed.

So that in RECORDER mode (via DMX) the unit will need 13 channels to be correctly programmed.

The three new DMX channels are:

DMX channel 11 = SCENES channel

From 0-10 = no function (r001)

From 11-255 are displayed the programmable scenes (max 16 scenes from M001 to M0016)

DMX channel 12 = EDIT channel:

-From 0-19 = no function

-From 20-234 the unit runs the configuration given by the received input DMX values.

With the channel SCENES it is possible to pass from one step to the next while with REC it is possible to record the selected scene.

-From 235-255 the unit runs the configuration given by the received input DMX values closing the sequence as last scene.
With the channel REC it is possible to record the selected scene as last scene.

DMX channel 13 = RECORDING channel

Records the set scene with a variation between 0 to 255 (the display flashes indicating that the scene has been recorded). It is advised that you keep the REC channel set to 0 and to run through the 255 only once you have decided to save the scene. If ChPr is not closed, by indicating the last scene (Edit channel between 235-255), in playback mode all 16 scenes will be played through even if not programmed

MENU Up-Down

SLA**U**

ENTER

SUR-E

ENTER

Up-Down

SLU

ENTER

ESC

SLAVE MODE

Slave mode for ChPr program.

All slave units will be synchronised with master unit, running their own Chpr program.

NOTE:
External infrared remote sensor needed.
D.T.S. Code :03.LA.016

NOT IMPLEMENTED ON FOS 100

MENU Up-Down

I r

ENTER Up-Down

On

ENTER

OFF

INFRARED MODE

Infrared remote control.

By activating Ir MODE, it will be possible to navigate through the unit functions by using the D.T.S. infrared remote control.

D.T.S. Code :0514L008

MENU Up-Down

WdNH

ENTER Up-Down

SEL

ENTER

On

WIRELESS DMX Disabled
(Default)

OFF

WIRELESS DMX Enabled

WIRELESS DMX

Wireless DMX enabled/disabled.

Wireless DMX receiver kit on FOS 100 is available on request.

Up-Down

UnL

ENTER

UNLINK = LOG OUT

MENU Up-Down

FAn

ENTER Up-Down

12U

ENTER

OFF

Fan Speed Control
Range: OFF - 24 volt
Default = 12 volt

FAN SPEED CONTROL

Internal Fan Speed control selectable by user.

Range: OFF - 24 volt
Default : 12 volt

MENU Up-Down

EMEr

ENTER Up-Down

SEL

ENTER Up-Down

On

ENTER

Default = OFF

White

ENTER

dimn

ENTER

Default = White 1

Default = 255

EMERGENCY

Emergency operating mode.
By setting Emergency mode, it will be possible to select one of the 16 preprogrammed WHITE cues that will then ran if DMX signal is missing or not available.
Usefull for Emergency EXIT illumination on public areas.

MENU Up-Down

dfSE

ENTER

SUrE

ENTER

DEFAULT

To restore default settings

MENU Up-Down

LENP

ENTER

0250

ENTER

Internal Unit temperature.
(° Celsius)

TEMPERATURE

Internal Unit temperature
visualisation

MENU Up-Down

L1 NE

ENTER Up-Down

rEd

ENTER

GrEE

blUE

RnBr

Unit

LIFE TIME

This menu show the total UNIT life time
and the RGBW life time

MENU Up-Down

LESE

ENTER

LESE

TEST MODE

RGBW colours test with rainbow

MENU Up-Down

SOFT

ENTER

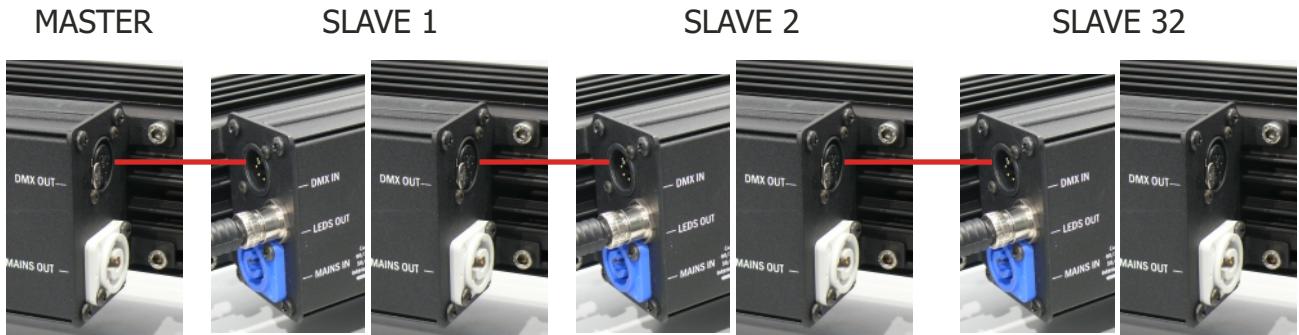
u.5.03

SOFTWARE

Software version

AUTOMATIC OPERATION (AUTO):

FOS 100 SOLO can work in automatic mode without a DMX controller. First of all connect the projectors with a DMX cable (picture below). A maximum quantity of 32 slave units can be connected to the same Master unit.



To activate Auto mode on the first unit, use the menu to run through the different modes until AUTO appears on the display, and press enter.

Now it is possible to choose between the different pre-programmed games (CUPr-RAIn-CU01/CU16-Wh01/Wh16) or ChPr which is user programmable through REC mode. To confirm game activation press ENTER on the selected GAME.

CUPr-RAIn-CU01/CU16-Wh01/Wh16

The first unit that will work as a Master should be placed in Automatic mode (AUTO), the other units have to be placed in 10 DMX channels mode (MODE 10CH) and the DMX address should be set at A001. For RaIn (rainbow) game it is possible to select the speed for the colour changhing (SPEE). DIMMER function (in AUTOMATIC MODE) is active for all the programs. SHUTTER function (in AUTOMATIC MODE) is active only for CU01/CU16 and Wh01/Wh16 macros.

ChPr MASTER/SLAVE

The first unit that will function as a Master must be set to Automatic mode (AUTO), the other units must be set to Slave mode (SLAV), selectable through the menu. In this way all the Slave units will be synchronised with the master and running their own ChPr game.

On the master unit it is possible to vary the Speed time (SPEE) for the colour changhing and the Wait time (UAIt) between the steps.

Speed time and Wait time on the Master, have priority on the slave units.

NB: It is possible to run GA.Pr on the other units even though these do not have GA.Pr programmed. You can do this by setting the units to 10 DMX channels mode and selecting DMX address A001.

Rec mode

It is possible to program your own game on the FOS 100 SOLO FULL RGBW / FOS 100 SOLO FULL WHITE CT that will then run it in AUTO mode (ChPr).

Each unit can have its own programmed game.

In REC mode the unit must be set to 10 DMX channels mode.

To program the ChPr by using a DMX controller, you need 3 more channels in addition to the 10 channels necessary to control the unit.

So that in RECORDER mode (via DMX) the unit will need 12/13 DMX channels to be correctly programmed.

The three new DMX channels are:

DMX channel 11 = SCENES channel

From 0-10 = no function (r001)

From 11-255 are displayed the programmable scenes (max 16 scenes from M001 to M0016)

DMX channel 12 = EDIT channel:

-From 0-19 = no function

-From 20-234 the unit runs the configuration given by the received input DMX values.

With the channel SCENES it is possible to pass from one step to the next while with REC it is possible to record the selected scene.

-From 235-255 the unit runs the configuration given by the received input DMX values closing the sequence as last scene.

With the channel REC it is possible to record the selected scene as last scene.

DMX channel 13 = RECORDING channel

Records the set scene with a variation between 0 to 255 (the display flashes indicating that the scene has been recorded). It is advised that you keep the REC channel set to 0 and to run through the 255 only once you have decided to save the scene. If ChPr is not closed, by indicating the last scene (Edit channel between 235-255), in playback mode all 16 scenes will be played through even if not programmed.

DMX PROTOCOL

FOS 100 SOLO FC

10 CHANNELS MODE (Default)

- 1 SHUTTER**
- 2 DIMMER**
- 3 RED**
- 4 GREEN**
- 5 BLUE**
- 6 WHITE**
- 7 WHITE PRE-PROGRAMMED**
- 8 CTC**
- 9 COLOURS MACRO**
- 10 FUNCTIONS**

DMX CHANNEL	1	Parameter: SHUTTER
-------------	---	---------------------------

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-9	5				Black-out
10-19	14				Open
20-29	24				Black-out
30-119					Strobe at variable speed from slow to fast (3,27 s - 30 ms)
120-149					Pulse open at variable speed from slow to fast (42,6 s - 120ms)
150-179					Pulse close at variable speed from slow to fast (42,6 s - 120ms)
180-204	192				Random Strobe (Master and RGBA active)
205-229	218				Random Strobe (Full)
230-234					Red, Yellow, Cyan and Blue colour effects at variable speed
235-255	245				Open

DMX CHANNEL	2	Parameter: DIMMER
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional dimmer

DMX CHANNEL	3	Parameter: RED
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional colour

DMX CHANNEL	4	Parameter: GREEN			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional colour

DMX CHANNEL	5	Parameter: BLUE			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional colour

DMX CHANNEL	6	Parameter: WHITE			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional colour

DMX CHANNEL	7	Parameter: WHITE PRE-PROGRAMMED			
-------------	---	--	--	--	--

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-55	23				No Function
56-105	80				Full (Red-Green-Blue-White at Full)
106-155	130				White DTS

IF CHANNEL 10 (FUNCTIONS) = CUSTOM WHITE RECALL (Dmx range value 0 - 79)

156-205	180	Custom White Recall
206-255	225	White CTC (Channel 8 CTC enabled 256 color temp. Correction Macros: 2700K - 8000K)

IF CHANNEL 10 (FUNCTIONS) = CUSTOM WHITE CREATE (Dmx range value 80 - 160)

156-205	180	Custom White Create (RGBW levels selectable by DMX)
206-255	225	White CTC (Channel 8 CTC enabled 256 color temp. Correction Macros: 2700K - 8000K)

DMX CHANNEL	8	Parameter: CTC (Color temperature correction)
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
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IF CHANNEL 7 (White) = WHITE CTC (Dmx range value 206 - 255)

0-255	256 color temp. Correction Macros: 0 = 2700K / 128 = 5500K / 255 = 8000K
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IF CHANNEL 7 (White) = NO FUNCTION (Dmx range value 0 - 43)

0-255	No Function
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DMX CHANNEL	9	Parameter: COLOUR MACROS
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IF: **PLEASE CHECK PAGE 13**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-14					No Function
15-29					Macro 1
30-44					Macro 2
45-59					Macro 3
60-74					Macro 4
75-89					Macro 5
90-104					Macro 6
105-119					Macro 7
120-134					Macro 8
135-149					Macro 9
150-164					Macro 10
165-179					Macro 11
180-194					Macro 12
195-209					Macro 13
210-225					Macro 14
226-239					Macro 15
240-255					Macro 16

DMX CHANNEL	9	Parameter: COLOUR MACROS
-------------	---	--------------------------

IF: MENU Up-Down **node** ENTER Up-Down **MACr** ENTER Up-Down **EHE** ENTER

PLEASE CHECK PAGE 13

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-14					No Function
15-22					Macro 1
23-30					Macro 2
31-38					Macro 3
39-46					Macro 4
47-54					Macro 5
55-62					Macro 6
63-70					Macro 7
71-78					Macro 8
79-86					Macro 9
87-94					Macro 10
95-102					Macro 11
103-110					Macro 12
111-118					Macro 13
119-126					Macro 14
127-134					Macro 15
135-142					Macro 16
143-150					Rainbow Speed 1 (1 Sec.)
151-158					Rainbow Speed 2 (5 Sec.)
159-166					Rainbow Speed 3 (10 Sec.)
167-174					Rainbow Speed 4 (20 Sec.)
175-182					Rainbow Speed 5 (30 Sec.)
183-190					Rainbow Speed 6 (60 Sec.)
191-198					Rainbow Speed 7 (120 Sec.)
199-206					Rainbow Speed 8 (180 Sec.)
207-214					Random Speed 1 (0.5 sec.)
215-222					Random Speed 2 (1 Sec.)
223-230					Random Speed 3 (2 Sec.)
231-238					Random Speed 4 (5 Sec.)
239-246					Random Speed 5 (10 Sec.)
247-255					Random Speed 6 (30 Sec.)

DMX CHANNEL	10	Parameter: FUNCTIONS (Recall, Create and Store the Custom white)
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-79					Custom White Recall (Enable CH 7 for Custom white Recall)
80-160					Custom White Create (Enable CH 7 for Custom white Creation)
161-255					Custom White Store (Store the Custom White created)

DMX PROTOCOL**FOS 100 SOLO FC****6 CHANNELS MODE (Shutter + Dimmer + RGBW)**

- 1 SHUTTER**
- 2 DIMMER**
- 3 RED**
- 4 GREEN**
- 5 BLUE**
- 6 WHITE**

DMX CHANNEL	1	Parameter: SHUTTER
-------------	---	---------------------------

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-9	5				Black-out
10-19	14				Open
20-29	24				Black-out
30-119					Strobe at variable speed from slow to fast (3,27 s - 30ms)
120-149					Pulse open at variable speed from slow to fast (42,6 s - 120ms)
150-179					Pulse close at variable speed from slow to fast (42,6 s - 120ms)
180-204	192				Random Strobe (Master and RGBW active)
205-229	218				Random Strobe (Full)
230-234					Red, Yellow, Cyan and Blue colour effects at variable speed
235-255	245				Open

DMX CHANNEL	2	Parameter: DIMMER
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional dimmer

DMX CHANNEL	3	Parameter: RED
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional colour

DMX CHANNEL	4	Parameter: GREEN			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional colour

DMX CHANNEL	5	Parameter: BLUE			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional colour

DMX CHANNEL	6	Parameter: WHITE			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional colour

"WALL" 6 CHANNELS MODE (For use with DTS Wall mounted DMX controller 0514L007)

- 1 GREEN**
2 RED
3 BLUE
4 DIMMER
5 NOT USED
6 SHUTTER

 MENU
 Up-Down

 Node

 ENTER
 Up-Down

 WALL

 6 CHANNELS  ENTER

DMX CHANNEL	1	Parameter: GREEN			
-------------	---	-------------------------	--	--	--

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional colour

DMX CHANNEL	2	Parameter: RED			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional colour

DMX CHANNEL	3	Parameter: BLUE			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional colour

DMX CHANNEL	4	Parameter: DIMMER			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional dimmer

DMX CHANNEL	5	Parameter: NOT USED			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					No Function

DMX CHANNEL	6	Parameter: SHUTTER			
-------------	---	---------------------------	--	--	--

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-9	5				Black-out
10-19	14				Open
20-29	24				Black-out
30-119					Strobe at variable speed from slow to fast (3,27 s - 30ms)
120-149					Pulse open at variable speed from slow to fast (42,6 s - 120ms)
150-179					Pulse close at variable speed from slow to fast (42,6 s - 120ms)
180-204	192				Random Strobe (Master and RGBW active)
205-229	218				Random Strobe (Full)
230-234					Red, Yellow, Cyan and Blue colour effects at variable speed
235-255	245				Open

DMX PROTOCOL**FOS 100 SOLO FC**

M4CH mode  (5 DMX channels; Dimmer + RGBW)

- 1** **DIMMER**
- 2** **RED**
- 3** **GREEN**
- 4** **BLUE**
- 5** **WHITE**

DMX CHANNEL	1	Parameter: DIMMER			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional dimmer

DMX CHANNEL	2	Parameter: RED			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional colour

DMX CHANNEL	3	Parameter: GREEN			
-------------	---	-------------------------	--	--	--

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional colour

DMX CHANNEL	4	Parameter: BLUE			
-------------	---	------------------------	--	--	--

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional colour

DMX CHANNEL	5	Parameter: WHITE			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional colour

DMX PROTOCOL**FOS 100 SOLO FC****RGBW mode (4 DMX channels)**

- 1 **RED**
- 2 **GREEN**
- 3 **BLUE**
- 4 **WHITE**

DMX CHANNEL	1	Parameter: RED			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional colour

DMX CHANNEL	2	Parameter: GREEN			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional colour

DMX CHANNEL	3	Parameter: BLUE			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional colour

DMX CHANNEL	4	Parameter: WHITE			
-------------	---	-------------------------	--	--	--

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional colour

1 CHANNEL MODE**1 DIMMER**

DMX CHANNEL	1	Parameter: DIMMER			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional dimmer

DMX PROTOCOL**FOS 100 SOLO CT****10 CHANNELS MODE (Default)**

- 1 SHUTTER**
- 2 DIMMER**
- 3 RED = WHITE 1**
- 4 GREEN = WHITE 2**
- 5 BLUE = WHITE 3**
- 6 WHITE = WHITE 4**
- 7 WHITE PRE-PROGRAMMED**
- 8 CTC**
- 9 COLOURS MACRO**
- 10 FUNCTIONS**

DMX CHANNEL	1	Parameter: SHUTTER
-------------	---	---------------------------

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-9	5				Black-out
10-19	14				Open
20-29	24				Black-out
30-119		Strobe at variable speed from slow to fast (3,27 s - 30 ms)			
120-149		Pulse open at variable speed from slow to fast (42,6 s - 120ms)			
150-179		Pulse close at variable speed from slow to fast (42,6 s - 120ms)			
180-204	192		Random Strobe (Master and RGBW active)		
205-229	218		Random Strobe (Full)		
230-234		Red, Yellow, Cyan and Blue colour effects at variable speed			
235-255	245		Open		

DMX CHANNEL	2	Parameter: DIMMER
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional dimmer

DMX CHANNEL	3	Parameter: RED = WHITE 1
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional colour

DMX CHANNEL	4	Parameter: GREEN = WHITE 2			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional colour

DMX CHANNEL	5	Parameter: BLUE = WHITE 3			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional colour

DMX CHANNEL	6	Parameter: WHITE = WHITE 4			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional colour

DMX CHANNEL	7	Parameter: WHITE PRE-PROGRAMMED			
-------------	---	--	--	--	--

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-55	23				No Function
56-105	80				Full (Red-Green-Blue-White at Full)
106-155	130				White DTS

IF CHANNEL 10 (FUNCTIONS) = CUSTOM WHITE RECALL (Dmx range value 0 - 79)

156-205	180	Custom White Recall
206-255	225	White CTC (Channel 8 CTC enabled 256 color temp. Correction Macros: 2700K - 6500K)

IF CHANNEL 10 (FUNCTIONS) = CUSTOM WHITE CREATE (Dmx range value 80 - 160)

156-205	180	Custom White Create (RGBW levels selectable by DMX)
206-255	225	White CTC (Channel 8 CTC enabled 256 color temp. Correction Macros: 2700K - 6500K)

DMX CHANNEL	8	Parameter: CTC (Color temperature correction)
-------------	---	--

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
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IF CHANNEL 7 (White) = WHITE CTC (Dmx range value 206 - 255)

0-255	256 color temp. Correction Macros: 0 = 2700K / 128 = 4500K / 255 = 6500K
-------	--

IF CHANNEL 7 (White) = NO FUNCTION (Dmx range value 0 - 43)

0-255	No Function
-------	-------------

DMX CHANNEL	9	Parameter: COLOUR MACROS
-------------	---	---------------------------------

IF: **PLEASE CHECK PAGE 13**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-14					No Function
15-29					Macro 1
30-44					Macro 2
45-59					Macro 3
60-74					Macro 4
75-89					Macro 5
90-104					Macro 6
105-119					Macro 7
120-134					Macro 8
135-149					Macro 9
150-164					Macro 10
165-179					Macro 11
180-194					Macro 12
195-209					Macro 13
210-225					Macro 14
226-239					Macro 15
240-255					Macro 16

DMX CHANNEL	9	Parameter: COLOUR MACROS
-------------	---	--------------------------

IF:  MENU Up-Down  ENTER  Up-Down  ENTER  Up-Down  ENTER PLEASE CHECK PAGE 13

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-14					No Function
15-22					Macro 1
23-30					Macro 2
31-38					Macro 3
39-46					Macro 4
47-54					Macro 5
55-62					Macro 6
63-70					Macro 7
71-78					Macro 8
79-86					Macro 9
87-94					Macro 10
95-102					Macro 11
103-110					Macro 12
111-118					Macro 13
119-126					Macro 14
127-134					Macro 15
135-142					Macro 16
143-150					Rainbow Speed 1 (1 Sec.)
151-158					Rainbow Speed 2 (5 Sec.)
159-166					Rainbow Speed 3 (10 Sec.)
167-174					Rainbow Speed 4 (20 Sec.)
175-182					Rainbow Speed 5 (30 Sec.)
183-190					Rainbow Speed 6 (60 Sec.)
191-198					Rainbow Speed 7 (120 Sec.)
199-206					Rainbow Speed 8 (180 Sec.)
207-214					Random Speed 1 (0.5 sec.)
215-222					Random Speed 2 (1 Sec.)
223-230					Random Speed 3 (2 Sec.)
231-238					Random Speed 4 (5 Sec.)
239-246					Random Speed 5 (10 Sec.)
247-255					Random Speed 6 (30 Sec.)

DMX CHANNEL	10	Parameter: FUNCTIONS (Recall, Create and Store the Custom white)
-------------	----	--

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-79					Custom White Recall (Enable CH 7 for Custom white Recall)
80-160					Custom White Create (Enable CH 7 for Custom white Creation)
161-255					Custom White Store (Store the Custom White created)

DMX PROTOCOL**FOS 100 SOLO CT****6 CHANNELS MODE (Shutter + Dimmer + RGBW)**

- 1 SHUTTER**
- 2 DIMMER**
- 3 RED = WHITE 1**
- 4 GREEN = WHITE 2**
- 5 BLUE = WHITE 3**
- 6 WHITE = WHITE 4**

DMX CHANNEL	1	Parameter: SHUTTER
-------------	---	---------------------------

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-9	5				Black-out
10-19	14				Open
20-29	24				Black-out
30-119					Strobe at variable speed from slow to fast (3,27 s - 30ms)
120-149					Pulse open at variable speed from slow to fast (42,6 s - 120ms)
150-179					Pulse close at variable speed from slow to fast (42,6 s - 120ms)
180-204	192				Random Strobe (Master and RGBA active)
205-229	218				Random Strobe (Full)
230-234					Red, Yellow, Cyan and Blue colour effects at variable speed
235-255	245				Open

DMX CHANNEL	2	Parameter: DIMMER
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional dimmer

DMX CHANNEL	3	Parameter: RED = WHITE 1
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional colour

DMX CHANNEL	4	Parameter: GREEN = WHITE 2			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional colour

DMX CHANNEL	5	Parameter: BLUE = WHITE 3			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional colour

DMX CHANNEL	6	Parameter: WHITE = WHITE 4			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional colour

"WALL" 6 CHANNELS MODE (For use with DTS Wall mounted DMX controller 0514L007)

- 1 GREEN**
2 RED
3 BLUE
4 DIMMER
5 NOT USED
6 SHUTTER

 MENU  Up-Down **node**  ENTER  Up-Down **WALL** 6 CHANNELS  ENTER

DMX CHANNEL	1	Parameter: GREEN			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional colour

DMX CHANNEL	2	Parameter: RED			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional colour

DMX CHANNEL	3	Parameter: BLUE			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional colour

DMX CHANNEL	4	Parameter: DIMMER			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional dimmer

DMX CHANNEL	5	Parameter: NOT USED			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					No Function

DMX CHANNEL	6	Parameter: SHUTTER			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-9	5				Black-out
10-19	14				Open
20-29	24				Black-out
30-119					Strobe at variable speed from slow to fast (3,27 s - 30ms)
120-149					Pulse open at variable speed from slow to fast (42,6 s - 120ms)
150-179					Pulse close at variable speed from slow to fast (42,6 s - 120ms)
180-204	192				Random Strobe (Master and RGBW active)
205-229	218				Random Strobe (Full)
230-234					Red, Yellow, Cyan and Blue colour effects at variable speed
235-255	245				Open

DMX PROTOCOL**FOS 100 SOLO CT**

M4CH mode **14CH** (5 DMX channels; Dimmer + RGBW)

- 1 DIMMER**
- 2 RED = WHITE 1**
- 3 GREEN = WHITE 2**
- 4 BLUE = WHITE 3**
- 5 WHITE = WHITE 4**

DMX CHANNEL	1	Parameter: DIMMER			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional dimmer

DMX CHANNEL	2	Parameter: RED = WHITE 1			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional colour

DMX CHANNEL	3	Parameter: GREEN = WHITE 2			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional colour

DMX CHANNEL	4	Parameter: BLUE = WHITE 3			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional colour

DMX CHANNEL	5	Parameter: WHITE = WHITE 4			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional colour

DMX PROTOCOL

FOS 100 SOLO CT

RGBW mode (4 DMX channels)

- 1 **RED = WHITE 1**
- 2 **GREEN = WHITE 2**
- 3 **BLUE = WHITE 3**
- 4 **WHITE = WHITE 4**

DMX CHANNEL	1	Parameter: RED = WHITE 1			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional colour

DMX CHANNEL	2	Parameter: GREEN = WHITE 2			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional colour

DMX CHANNEL	3	Parameter: BLUE = WHITE 3			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional colour

DMX CHANNEL	4	Parameter: WHITE = WHITE 4			
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional colour

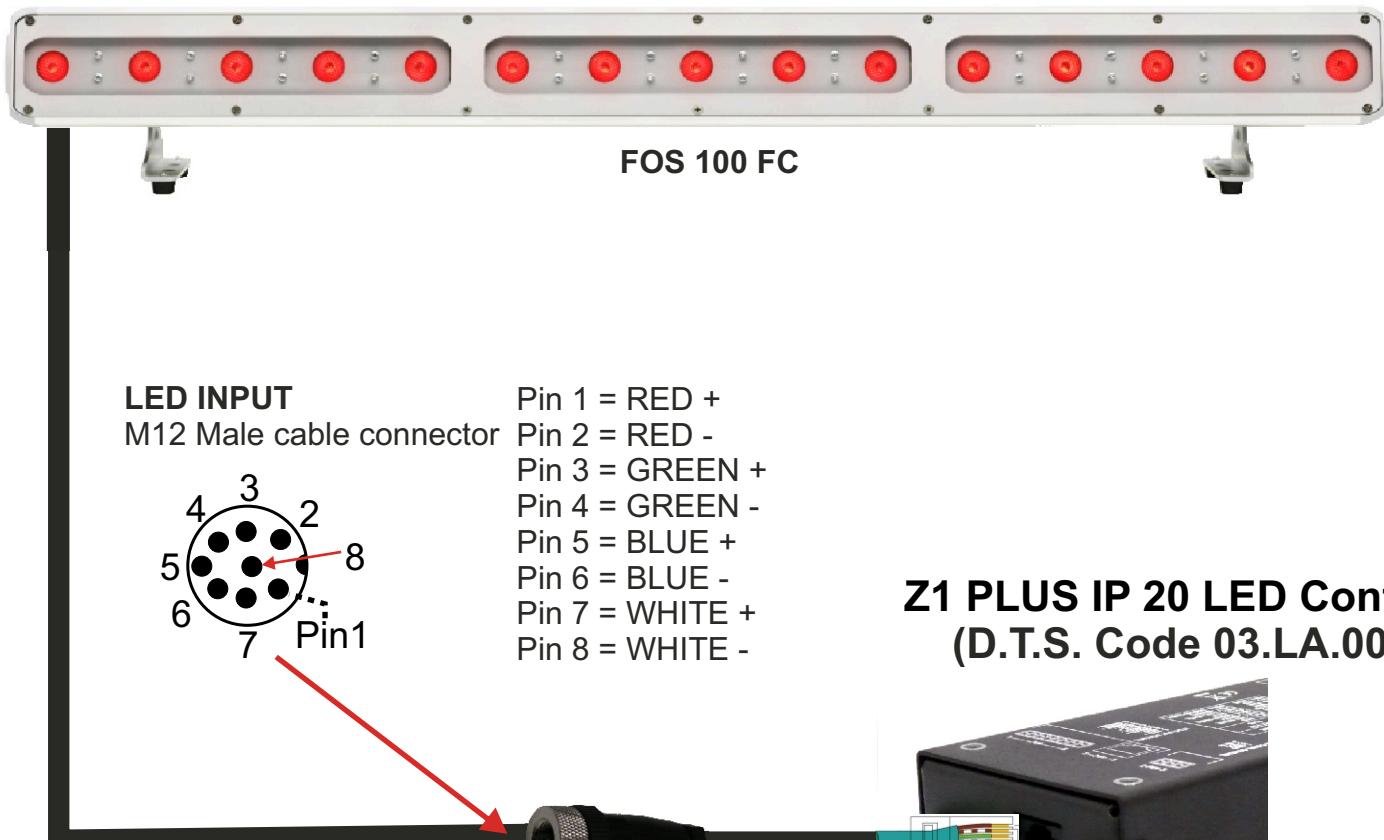
1 CHANNEL MODE

1 DIMMER

DMX CHANNEL	1	Parameter: DIMMER			
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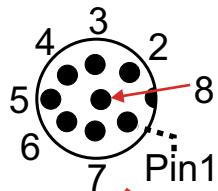
DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional dimmer

WIRING CONNECTIONS



LED INPUT

M12 Male cable connector



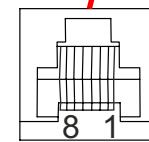
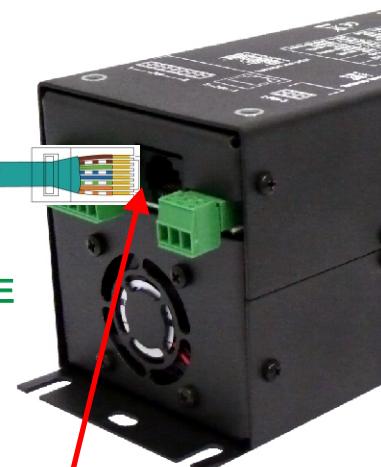
Pin 1 = RED +
 Pin 2 = RED -
 Pin 3 = GREEN +
 Pin 4 = GREEN -
 Pin 5 = BLUE +
 Pin 6 = BLUE -
 Pin 7 = WHITE +
 Pin 8 = WHITE -

**RJ45 MALE TO M12 FEMALE
CABLE CONVERTER
(D.T.S. Code: 03.LA.061)**

LEDS CONNECTOR PINOUT

Pin 1 = RED +
 Pin 2 = RED -
 Pin 3 = GREEN +
 Pin 4 = GREEN -
 Pin 5 = BLUE +
 Pin 6 = BLUE -
 Pin 7 = WHITE +
 Pin 8 = WHITE -

**Z1 PLUS IP 20 LED Controller
(D.T.S. Code 03.LA.009P)**



8-pin Female (RJ45)

IMPORTANT:

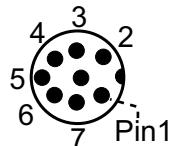
The maximum number of FOS 100 FC or CT connectable to the Z1 PLUS IP20 LED Controller is 1 pcs.

NEVER CONNECT OR DISCONNECT A FOS 100 UNIT WHEN THE POWER SUPPLY IS TURNED ON.

The maximum distance between Z1 PLUS power supply and the unit should not exceed 100 meters.

WIRING CONNECTIONS

FOS 100 FC



PIN CONNECTOR
MALE ON BOARD
FOS 100

FOS 100 CT

Z8 LED Controller M12 outputs
(D.T.S. Code 03.LA.075.V2)



- LEDs OUT 8
- LEDs OUT 7
- LEDs OUT 6
- LEDs OUT 5

FOS 100 FC

LEDS CONNECTOR
PINOUT (M12)

- Pin 1 = RED +
- Pin 2 = RED -
- Pin 3 = GREEN +
- Pin 4 = GREEN -
- Pin 5 = BLUE +
- Pin 6 = BLUE -
- Pin 7 = WHITE -
- Pin 8 = WHITE +

IMPORTANT:

The maximum number of FOS 100 FC or CT connectable to each Z8 LEDs output is 1 pcs.

NEVER CONNECT OR DISCONNECT A FOS UNIT WHEN THE POWER SUPPLY IS TURNED ON.

The maximum distance between the Z8 and the FOS 100 FC or CT should not exceed 50 meters.

FOS 100 CT

NOTES

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MADE IN ITALY



The Lighting Company

ISO 9001:2008

D.T.S. quality system
is certified to the
ISO 9001:2008 standard



D.T.S. products are designed
and manufactured at the D.T.S.
plants in Italy



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